#13

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/750,590

DATE: 09/21/2001 TIME: 18:46:17

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\09212001\I750590.raw

ENTERED

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4 <110> APPLICANT: Ira Herman
         Alice Welch
7 <120> TITLE OF INVENTION: BETA-CAP73 CONTROL OF NORMAL AND
        ABNORMAL CELL MIGRATION
10 <130> FILE REFERENCE: TUI-001CP
12 <140> CURRENT APPLICATION NUMBER: US 09/750,590
13 <141> CURRENT FILING DATE: 2000-12-28
15 <150> PRIOR APPLICATION NUMBER: 60/170,182
16 <151> PRIOR FILING DATE: 1999-12-10
18 <150> PRIOR APPLICATION NUMBER: 09/733,818
19 <151> PRIOR FILING DATE: 2000-12-08
21 <160> NUMBER OF SEQ ID NOS: 3
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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26 <211> LENGTH: 4730
27 <212> TYPE: DNA
28 <213> ORGANISM: Bos taurus
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31 <221> NAME/KEY: CDS
32 <222> LOCATION: (392)...(4597)
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36 gggaaggcag agaaagacat cttctaaata acaaatagga ggagttacag tacctgactt 120
37 ggggctgctc ttaatcaagt gctgccgctg caaggaagat aattttcaag cgttatgaag 180
38 gcggagaagg attccgaaga cgaagaaaat atccttagag atccaagcta agtgtagtgc 240
39 agcatgaaga ttgcagaaca ggaagagttc taagaagaag gactgagtca ctagttagga 300
40 gtctctctga gggctggctt tgtgagccac agtgatttgt aacttaatgc gaactaattt 360
41 gctgttagca acaagaaact aaatcctgtc t atg atg agc tgt tgg ttt tct
                                                                      412
                                       Met Met Ser Cys Trp Phe Ser
42
43
45 tgt gct cct aag aac aga caa gca gca gat tgg aac aaa tac gat gac
                                                                       460
46 Cys Ala Pro Lys Asn Arg Gln Ala Ala Asp Trp Asn Lys Tyr Asp Asp
            10
47
49 cga ttg atg aga gca gca gaa agg gga gat gta gaa aaa gtg tcc tca
                                                                       508
50 Arg Leu Met Arg Ala Ala Glu Arg Gly Asp Val Glu Lys Val Ser Ser
53 atc ctt gct aaa aag gga gtc aat cca ggc aag cta gat gta gaa ggc
                                                                       556
54 Ile Leu Ala Lys Lys Gly Val Asn Pro Gly Lys Leu Asp Val Glu Gly
                         45
57 aga tot goo ttt cat gtt gtg goo toa aag gga aat ott gag tgt ttg
                                                                       604
58 Arg Ser Ala Phe His Val Val Ala Ser Lys Gly Asn Leu Glu Cys Leu
                     60
 61 aat gcc atc ctc ata cat gga gtt gat att aca acc agt gac acc gca
                                                                       652
 62 Asn Ala Ile Leu Ile His Gly Val Asp Ile Thr Thr Ser Asp Thr Ala
                                                          85
                                     80
                 75
 65 gga agg aat gct ctt cac ctg gct gca aag tat ggg cat gca ctg tgt
                                                                       700
 66 Gly Arg Asn Ala Leu His Leu Ala Ala Lys Tyr Gly His Ala Leu Cys
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67 90 95 100	7.0
69 cta caa aaa ctt cta cag tac aat tgt ccc act gaa cat gta gac ctg	748
70 Leu Gln Lys Leu Gln Tyr Asn Cys Pro Thr Glu His Val Asp Leu	
71 105 110 115	
73 cag gga aga act gca ctt cat gat gca gct atg gca gac tgt cct tct	796
74 Gln Gly Arg Thr Ala Leu His Asp Ala Ala Met Ala Asp Cys Pro Ser	
75 120 125 130	
77 age ata cag etg etc tge gae cat ggg gee teg gtg aat gee aaa gat	844
78 Ser lle Gln Leu Leu Cys Asp His Gly Ala Ser Val Ash Ala Lys Asp	
$\frac{1}{1}$	
81 gta gat ggg cgg aca cca ctt gtt ctg gct acc cag atg tgt agg cca	892
82 Val Asp Gly Arg Thr Pro Leu Val Leu Ala Thr Gin Met Cys Arg Pio	
83 155 160 165	
85 aca ata tgt caa ctg ctg ata gat aga ggg gcg gat att aat tcc aga	940
86 Thr Ile Cys Gln Leu Leu Ile Asp Arg Gly Ala Asp Ile Ash Ser Aig	
87 170 175 180	
89 gac aaa caa aac agg act gct ctc atg cta gga tgc gag tat ggt tgc	988
90 Asp Lys Gln Asn Arg Thr Ala Leu Met Leu Gly Cys Glu Tyr Gly Cys	•
91 185 190 195	
93 aaa gat gca gta gaa gto tta ato aaa aac ggo got gao gtg aco ttg	1036
94 Lys Asp Ala Val Glu Val Leu Ile Lys Asn Gly Ala Asp Val Thr Leu	1
95 200 205 210 213	,
97 ctg gac gcc ctt ggc cat gac agt tct tac tat gca aga att ggt gac	; 1004
98 Leu Asp Ala Leu Gly His Asp Ser Ser Tyr Tyr Ala Arg Ile Gly Asp	,
99 220 225 230	ac 1132
101 aat ctg gac att cta acc tta ctg aag act gca tca gaa aat tcc aa	en III
102 Asn Leu Asp Ile Leu Thr Leu Leu Lys Thr Ala Ser Glu Asn Ser As	,11
103 233	at 1180
105 aaa ggg aga gaa ctt tgg aag aaa gga cca tct tta caa cag cga aa	
106 Lys Gly Arg Glu Leu Trp Lys Lys Gly Pro Ser Leu Gln Gln Arg As	
	ag 1228
109 ttg tct cag atg cta gat gaa gta aat acg aag tca aat cag agg ga	- ,
110 Leu Ser Gln Met Leu Asp Glu Val Asn Thr Lys Ser Asn Gln Arg Gl	
111 265 270 273 113 cat caa aac att cag gat ctg gag att gaa aat gaa gat ctg aaa ga	ag 1276
113 cat caa aac att cag gat ctg gag att gad dat gad gad seg and 30 114 His Gln Asn Ile Gln Asp Leu Glu Ile Glu Asp Leu Lys G	Lu
	95
115 280 285 290 117 aga ttg aga aaa att cag caa gaa cag aga ata tta ttg gat aaa g	tc 1324
118 Arg Leu Arg Lys Ile Gln Gln Glu Gln Arg Ile Leu Leu Asp Lys Vo	al
119 300 305 310 121 aat ggt tta cag cta cag ctg aat gag gaa gta atg gtg gct gat gag gaa gta atg gtg gct gat gag gag gaa gta atg gtg gct gat gag gag gag gag gag gag gag gag ga	at 1372
122 Asn Gly Leu Gln Leu Gln Leu Asn Glu Glu Val Met Val Ala Asp A	sp
123 315 320 125 ctg gaa agt gag aaa gaa aag ctg aag tcc ctt ttg gca gcc aaa g	aa 1420
125 Ctg gad agt gag and gut day ctg day see Leu Leu Ala Ala Lys G 126 Leu Glu Ser Glu Lys Glu Lys Leu Lys Ser Leu Leu Ala Ala Lys G	lu
126 Led Gid Sel Gid Lys Gid Lys Led Lys Led Lys 340	
120 and car cat gas gas ago cta aga act att gag got ctg aaa agt a	ga 1468
130 Lys Gln His Glu Glu Ser Leu Arg Thr Ile Glu Ala Leu Lys Ser A	rg
130 Hys GIR HIS GIR SIR SIR SIR SIR SIR SIR SIR SIR SIR S	
101	

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133 134	ttt Phe	aag Lys	tat Tyr	ttt Phe	gag Glu	agt Ser	gat Asp	cat His	tta Leu	gga Gly	Ser	gga Gly	agt Ser	cat His	ttc Phe	Arg	1516
135	360					365					370	•				3/3	1564
137	aaa	gaa	gat	atg	ctt	ctt	aaa	caa	ggt	caa	atg	tac	atg	aca	gac	tca	1564
138	Lys	Glu	Asp	Met	Leu	Leu	Lys	Gln	Gly	Gln	Met	Tyr	Met	Thr	Asp	ser	
120					380					385					390		1610
141	cag	tgt	act	tcc	aca	ggc	atg	cca	gtc	cat	atg	caa	agc	cga	tct	atg	1612
142	Gln	Cys	Thr	Ser	Thr	Gly	Met	Pro	Val	His	Met	Gln	Ser	Arg	ser	мет	
1/3				395					400					405			1660
145	tta	aga	cca	ctg	gag	cta	gcc	tta	cct	aat	caa	gcc	tca	tat	tcg	gaa	1000
146	Leu	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Pro	Asn	Gln	Ala	ser	Tyr	ser	GIU	
1/7			410					415					420				1708
149	aac	gaa	att	tta	aag	aaa	gaa	tta	gaa	gca	atg	aga	act	TTC	cgc	yaı	1/00
150	Asn	Glu	Ile	Leu	Lys	Lys	Glu	Leu	Glu	Ala	Met	Arg	Thr	Pne	Cys	ASP	
151		425					430					435		~~+	020	220	1756
153	tca	gca	aaa	caa	gac	aga	ctc	aaa	ctc	caa	aat	gaa	CLG	31a	Uic	Larg	1750
154	Ser	Ala	Lys	Gln	Asp	Arg	Leu	Lys	Leu	GIn	ASD	GIU	ьeu	Ата	птъ	шуз 455	
155	440					445					450	~- 2	200	a+a	222		1804
157	gtg	gcg	gag	tgc	aag	gcc	tta	gca	ttg	gaa	tgt	gaa	ayy	y Ly	Tyc	Glu	1001
158	Val	Ala	Glu	Cys		Ala	Leu	Ala	Leu	GLU	Cys	GIU	Arg	Val	цуз 470	Giu	
159					460					465	+	~~~	++~	222		ata	1852
161	gat	tca	gat	gag	cag	ata	aag -	caa	cta	gaa	gat	ycc xla	LLY	Tye	Acn	y cy Val	1032
162	Asp	Ser	Asp		Gln	IIe	Lys	GIn	Leu	GIU	ASP	Ата	пеп	485	изъ	vu1	
163				475			.		480	222	a+a	222	caa		cad	aca	1900
165	cag	aag	aga	atg	tat	gag	tcg	gaa	ggt	Tuc	y L y	Luc	Gln	Met	Gln	Thr	
	Gln	Lys		Met	Tyr	GIU	ser	495	GIY	гу	Val	цуз	500	nec	01		
167	cat		490				~~~		ata	202	aπt	gat		acc	act	aaa	1948
169	cat	ttt	ctt	gcc	ttg	aaa	gay	Uic	Len	Thr	Ser	Asp	Ala	Ala	Thr	Gly	
				Ald	пеп	гур	510	птэ	neu	1111	001	515				-	
171		505		ata	2+4	a a a	O T O	cta	ааσ	gat	саσ			qac	atq	aaa	1996
1/3	aac	Cac	agg	Tou	Mot	Glu	Glu	T.e.ii	Lvs	Asp	Gln	Leu	Lys	Asp	Met	Lys	
		нтъ	AIG	TEU	Mec	525	OIU	100			530		•	-		535	
177	520	322	tac	таа	aat		tico	σca	σaa	ata	qqq	aaa	ttg	aga	aac	caa	2044
170	y Ly 1731	Tyc	Tyr	Glu	Glv	· Ala	Ser	Ala	Glu	Val	Gly	Lys	Leu	Arg	Asn	Gln	
179	Val	цуз	ı yı	Olu	540		-			545	_	-			550		
191	atc	aaa	caa	aat	σаа	atq	tta	qtt	gaa	gag	ttt	aag	aga	gat	gag	ggc	2092
182	Tle	Lvs	Gln	Asn	Glu	Met	Leu	val	Ğlu	Glu	Phe	Lys	Arg	Asp	Glu	Gly	
183		L 10	0111	555					560					565			
185	aan	cta	ato	gaa	gaq	aat	aag	cga	ctg	cag	aag	gag	ttg	ago	atg	tgt	2140
186	Lvs	Leu	Met	Ğlu	Glu	Asn	Lys	Arg	Leu	Gln	Lys	Glu	Leu	Ser	Met	. Cys	
187			570					575	,				280				
1 2 9	αаа	cta	σaσ	cqa	gag	aag	aga	gga	agg	aag	cto	act	gag	atg	gaa	ggc	2188
190	Glu	Leu	Glu	Arg	Glu	Lys	Arg	Gly	Arg	Lys	Leu	ı Tnr	. GIu	Met	. Glu	Gly	
191		585	,				590)				595	•				0006
103	cad	tta	aag	gac	ttg	r tca	gcc	aag	ctg	gcc	ctt	: tct	att	. cca	gca	gag	2236
194	Gln	Leu	Lys	Asp	Let	ı Ser	Ala	Lys	Leu	Ala	Leu	ı Ser	Ile	Pro	Ala	Gru	
195	600					605	;				9 T C)				012	2204
197	aaa	ttt	: gaa	aac	ato	g aag	ago	ttg	, tta	tca	aat	gaa	ctg	aac	gag	aag	2284

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				_	**. L	T	O	T 0.11	Tou	Cor	λan	Glu	T.011	Δen	Glu	Lvs	
	Lys	Phe	GLu	Asn	мет 620	гÀг	ser	Leu	Leu	625	ASII	GIU	пец	21.511	Glu 630	_,_	
199				++-		a a t	ata	maa	аπа		tat	αаа	aσa	tca	ctt	aat	2332
201	gca	Tura	Tuc	LLa	Tla	Acn	Val	Glu	Ara	Glu	Tvr	Glu	Arq	Ser	Leu	Asn	
	Ата	ьуѕ	гуз	635	116	изр	vul	Olu	640	01	-1-			645			
203	~~~	a.a.t	202	000	tta	аап	aσa	αаа		gag	aat	ttq	aaq	gcc	aaa	ctg	2380
205	gaa	mhr	Ara	Dro	Leu	T.VS	Ara	Glu	Leu	Glu	Asn	Leu	Lys	Ăla	Lys	Leu	
207	GIU	1111	650	110	пса			655					660				
209	act	cad	cac	at.c	aaa	cca	gag	qaa	cat	gag	cag	ctc	aag	agc	aga	tta	2428
210	Ala	Gln	His	Val	Lvs	Pro	Glu	Ğlu	His	Glu	Gln	Leu	Lys	Ser	Arg	Leu	
211		665					670					675					
213	σασ	caq	aaq	tca	gga	gaa	ctt	ggg	aag	agg	atc	act	gag	tta	aca	tcg	2476
214	Glu	Gln	Lys	Ser	Gly	Glu	Leu	Gly	Lys	Arg	Ile	Thr	Glu	Leu	Thr	Ser	
215	680					685					690					095	0504
217	aaa	aat	cag	acg	tta	caa	aag	gaa	atc	gaa	aag	gtc	tgc	ctg	gat	aat	2524
218	Lys	Asn	Gln	Thr	Leu	Gln	Lys	Glu	Ile	Glu	Lys	Val	Cys	Leu	Asp	Asn	
219					700					705					110		2572
221	aag	ctc	ctt	aca	caa	caa	gta	aat	aac	tta	aca	act	gaa	atg	aaa	aat	2572
222	Lys	Leu	Leu	Thr	Gln	Gln	Val	Asn	Asn	Leu	Thr	Thr	GLu	Met	Lys	ASI	•
223				715					720			.	+	725	at a	a++	2620
225	gtc	cct	tta	aaa	gta	agt	gaa	gaa	atg	aaa	aag	Con	Cat	yar	gta	Tla	2020
226	Val	Pro		Lys	Val	Ser	Glu		мет	гĀг	ьуѕ	ser	740	АБР	Val	TIC	
227			730					735	+ ~ ~	~a+	a+a	202		aaa	tat	aca	2668
229	gtt	gat	gat	ttg	aat	aaa	aag	TOU	Cor	yaı	y cy val	Thr	His	Lvs	tat Tvr	Thr	
	Val		Asp	Leu	ASII	ьуѕ	дуS 750	Leu	Ser	изр	Vul	755	1110	_1_	Tyr		
231		745	224	++~	<i>~</i>	ata		aan	ttα	ctt	at.σ		aat	qcc	agt	tta	2716
233	gaa	aay	Tre	Ley	Glu	Mot	Glu	Lvs	Leu	Leu	Met	Glu	Asn	Āla	Ser	Leu	
	760	гур	гуэ	Lieu	GIU	765	014		200		770					775	
233	ant	222	aat	atc	aσc		ct.a	σaa	act	ata	ttc	ata	cct	ccc	gag	aga	2764
237	Ser	Lvs	Asn	Val	Ser	Ara	Leu	Glu	Thr	val	Phe	Ile	Pro	Pro	Glu	Arg	
239					780					785					790		
241	cac	σaa	aaa	qaa	atg	atg	gct	ctg	aaa	tcc	aat	atc	act	gaa	ctt	aag	2812
242	His	Ğlu	Lys	Ğlu	Met	Met	Ala	Leu	Lys	Ser	Asn	Ile	Thr	Glu	Leu	Lys	
243				795					800					805			0050
245	aag	cag	ctg	tct	gaa	ctt	aat	aaa	aaa	tgt	ggt	gaa	gac	caa	gag	aaa	2860
246	Lys	Gln	Leu	Ser	Glu	Leu	Asn	Lys	Lys	Cys	Gly	Glu	Asp	Gin	Glu	ràs	
247			810					815					820				2908
249	ata	tat	tca	ctc	atg	tct	gaa	aac	aat	gat	ttg	aaa	aag	acc	aly Mot	agt	2900
250	Ile			Leu	Met	Ser			Asn	Asp	ьeu	. Lys	гуѕ	TILL	мес	Ser	
251		825					830					835		aat	acc	ttα	2956
253	cat	cag	tat	gtg	ccc	gtg	aaa	acc	cat	gaa	gay	all Tlo	. aaa	Thr	. gcc · Δla	ttg	2,50
			Tyr	Val	Pro			Thi	HIS	GIU	850	. 116	. шуб	T 11T	2314	Leu 855	
255	840				. ~~+	845		+	ara	паа	-		σat	at.a	aao		3004
257	agt	ago	aca	ttg	gat	. aaa	acc πh⊸	aal Nen	. aya	. yaa . Glu	. נובם דום.ד	. y.cu Val	Agn	Val	Lvs	aag Lys	
		ser	rnr	ьeu	ASP 860		111T	ASL	. AIY	865	. <u></u> eu				870	1 -	
259		. +~+	~~~	~a+	000	, , , , , +	Caa	gaa	+++			ata	aaa	gat		aac	3052
261	aag	C	. yad	. yat	. a.ca	. aut	. Glr	Glu	Phe	. Val	Lvs	Ile	Lys	Asp	Ğlu	Asn	
202	туѕ	Cys	GIU	ush	, 116	. HOL	. ОТ.	. 510		. ,	-,-		-1 -				

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263				875					880					885			
265	σaa	ata	tta	aaa	aga	aat	ctg	gag	aac	act	cag	aac	caa	gta	aaa	gct	3100
266	Glu	Ile	Leu	Lys	Arg	Asn	Leu	Glu	Asn	Thr	Gln	Asn	Gln	Val	Lys	Ala	
267			890	•	_			895					900				
269	gag	tac	atc	aqc	cta	aga	gag	cat	gaa	gaa	aag	atg	agt	ggc	cta	agg	3148
270	Glu	Tvr	Ile	Ser	Leu	Arq	Glu	His	Glu	Glu	Lys	Met	Ser	Gly	Leu	Arg	
271		905				-	910				_	915					
273	ааσ		at.σ	aaσ	aag	atc	caq	qac	aac	agc	gct	gaa	ata	ctg	gct	aag	3196
274	Lvs	Ser	Met	Lvs	Lys	Val	Gln	Asp	Asn	Ser	Åla	Glu	Ile	Leu	Ala	Lys	
275		DCI		_10	-1-	925					930					935	•
277	tac	aaa	aaa	aσc	cag	σασ	gag	att	qtc	acc	ctg	cat	gag	gag	att	gca	3244
278	Tyr	Lvs	Lvs	Ser	Gln	Glu	Glu	Ile	Val	Thr	Leu	His	Glu	Glu	Ile	Ala	
279	-1-	_,_	-1-		940					945					950		
281	acc	caσ	ааσ	aga	gaa	ctc	σac	acq	ata	caq	qaa	tqc	atc	aag	cta	aaa	3292
282	Ala	Gln	Lvs	Ara	Glu	Leu	Asp	Thr	Ile	Gln	Ğlu	Cys	Ile	Lys	Leu	Lys	
283		0111	2,0	955					960			_		965			
285	tat	act	cca		atc	aσc	t.t.a	σaa	gag	tat	qaq	aga	aaa	ttt	aaa	gcc	3340
286	Tyr	Δla	Pro	Tle	Ile	Ser	Leu	Ğlu	Ğlu	Cys	Ğlu	Arq	Lys	Phe	Lys	Ala	
287	- 1 -	1114	970					975		•		_	980				
289	act	σаσ		αаа	cta	aaa	σаа	caσ	cta	tcc	caq	caq	aca	cag	aag	tat	3388
200	Thr	Glu	LVS	Glu	Len	Lvs	Glu	Gln	Leu	Ser	Gln	Gln	Thr	Gln	Lys	Tyr	
291	290 Thr Glu Lys Glu Leu Lys 291 985											99!	5		_	_	
293	aat			σаа	gaa	σασ	990 acc		aag	tac	aaq	caa	gag	aat	gac	aag	3436
294	Δan	Thr	Ser	Glu	Glu	Glu	Ala	Lvs	Lvs	Cys	Lys	Gln	Glu	Asn	Asp	Lys	
	1000		001	0		1005			-	_	101					1015	
297	tta	aaor	ааσ	σασ	atc			ctt	caq	aaq	gat	cta	aag	gat	aag	aat	3484
298	Leu	Lvs	Lvs	Glu	Ile	Leu	Thr	Leu	Gln	Lys	Asp	Leu	Lys	Asp	Lys	Asn	
299	Lou	270	1-		1020					102			_		1030		
301	att	cac	at.t.	σασ	aat		tat	qaa	aca	qaa	aga	gca	tta	agc	aga	aaa	3532
302	Val	His	Ile	Glu	Asn	Ser	Tvr	Ğlu	Thr	Ğlu	Arg	Āla	Leu	Ser	Arg	Lys	
303	Val His Ile Glu Asn Ser 1035							104		-			1045				
305	aca	σaa	σασ		aac	aga	caq	tta	aaa	gac	ctg	ttg	cag	aaa	tac	aca	3580
306	Thr	Glu	Glu	Leu	Asn	Arq	Gln	Leu	Lys	Asp	Leu	Leu	Gln	Lys	Tyr	Thr	
307			105			,		105		_			106				
309	σασ	σca			gag	aaa	qaq	aaq	ctc	gtg	gag	gaa	aat	gcc	aag	cag	3628
310	Glu	Ala	Lvs	Lvs	Glu	Lys	Ğlū	Lys	Leu	Val	Glu	Glu	Asn	Ala	Lys	Gln	
311		106				-	107					107					
313	act	tct	gag	atc	ctt	qca	qca	caa	act	ctt	ttg	cag	aag	cag	cat	gtt	3676
314	Thr	Ser	Glu	Ile	Leu	Ãla	Ăla	Gln	Thr	Leu	Leu	Gln	Lys	Gln	His	Val	
	108					108					109					1095	
317	cca	cta	σασ	caq	gtt	qaq	tcc	ctq	aaa	aaa	tct	ctt	agt	ggt	aca	atc	3724
318	Pro	Leu	Glu	Gln	Val	Ğlū	Ser	Leu	Lys	Lys	Ser	Leu	Ser	Gly	Thr	Ile	
319			•		110				-	110					1110)	
321	σασ	aca	ctc	aaσ	qaa	qaa	cta	aaa	act	aaq	cag	aga	tgt	tat	gag	aaa	3772
322	Glu	Thr	Leu	Lvs	Glu	Glu	Leu	Lvs	Thr	Lys	Gln	Arg	Cys	Tyr	Glu	Lys	
323				111				4 -	112				-	112	5		
325	σασ	cad	саσ		gtg	acc	caa	cta			atq	ctq	gag	aat	cag	aag	3820
223					J - 3					-1		Ŧ			a 1		
326	Glii	Gln	Gln	Thr	Val	Thr	Gln	Leu	Arq	GIn	Met	Leu	GIU	Asn	GIn	ьуs	
326 327	Glu	Gln	Gln 113		Val	Thr	Gln	Leu 113		GIn	Met	Leu	114	Asn O	GIN	гАг	

VERIFICATION SUMMARY

DATE: 09/21/2001

PATENT APPLICATION: US/09/750,590

TIME: 18:46:18

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\09212001\I750590.raw